PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220		
FPC03016-PCT	ACTION	as well a	as, where applicable, item 5 below.		
International application No.	International filing date (day/m	onth/year)	(Earliest) Priority Date (day/month/year)		
PCT/KR2003/002115	14 OCTOBER 2003 (14	.10.2003)	EIR		
Applicant LG CHEM, LTD. et al 2004 07. 05					
This International search report has been prepared by this International Searching Authority and is transmitted to the applicational to Article 18. A copy is being transmitted to the International Bureau.					
This international search report consists of a total of sheets. It is also accompanied by a copy of each prior art document cited in this report.					
Basis of the report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).					
b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.					
2. Certain claims were found un	searchable (See Box No. II)				
3. Unity of invention is lacking (See Box No. III)		·		
4. With regard to the title,					
X the text is approved as submitte	d by the applicant.				
the text has been established by this Authority to read as follows:					
5. With regard to the abstract,					
X the text is approved as submitte	d by the applicant.				
the text has been established, ac	cording to Rule 38.2(b), by this a		opears in Box No. IV. The applicant t, submit comments to this Authority.		
6. With regard to the drawings,					
a. the figure of the drawings to be published with the abstract is Figure No.					
as suggested by the applicant.					
because the applicant failed to suggest a figure.					
because this figure better c			:		
b. X none of the figure is to be published with the abstract.					
Form PCT/ISA/210 (first sheet) (January 2004)					

INTERNATIONAL SEARCH REPORT

International application No. PCT/KR2003/002115

A. CLASSIFICATION OF SUBJECT M	JATTER
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IPC7 B01J 23/16

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC7 BOIJ 23/16

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched KOREAN PATENTS AND APPLICATIONS FOR INVENTIONS SINCE 1975
KOREAN UTILITY MODELS AND APPLICATIONS FOR UTILITY MODELS SINCE 1975

Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used) eKIPASS, HTTP://WWW.USPTO.GOV/, WWW.DELPHION.COM/WPI, PAJ, 'catalyst AND oxidation AND acrolein'

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US4563440 (Stamicarbon B.V., Licensing Subsidiary of DSM) 7 January 1986 see the abstract	1
Y	US4382880 (Rhone-Poulenc Industries) 10 May 1983 see the abstract and claims	1
Α	US6171998 (LG Chemical, Ltd.) 9 January 2001 see the whole document	I ~ 12
Α	US5446004 (BASF Aktiengesellschaft) 29 August 1995 see the whole document	1~12
A	US4892856 (Nippon Shokubai Kagaku Kogyo Co., Ltd.) 9 January 1990 see the whole document	1~12
Α	US6337424 (Saudi Basic Industries Corporation) 8 January 2002 see the whole document	· 1 ~ 12
А	US4442308 (Degussa Aktiengesellschaft) 10 April 1984 see the whole document	1~12

1~12
See patent family annex.
"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family
Date of mailing of the international search report 28 JUNE 2004 (28.06.2004)
Authorized officer
YANG, In Soo
Telephone No. 82-42-481-5567

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